







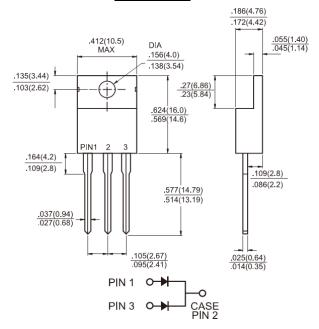
Features

- ♦ Glass passivated chip junction
- ♦ High efficiency, Low VF
- ♦ High current capability
- ♦ High reliability
- ♦ High surge current capability
- ♦ Low power loss
- Green compound with suffix "G" on packing code & prefix "G" on datecode

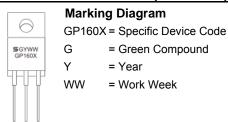
Mechanical Data

- ♦ Cases: TO-220AB Molded plastic
- ♦ Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: As marked
- → High temperature soldering guaranteed: 260°C/10 seconds .16", (4.06mm) from case.
- Weight: 2.24 grams

GP1601 - GP1607 16.0 AMPS. Glass Passivated Rectifiers TO-220AB



Dimensions in inches and (millimeters)



Maximum Ratings and Electrical Characteristics

Rating at 25 $^{\circ}$ C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	Symbol	GP 1601	GP 1602	GP 1603	GP 1604	GP 1605	GP 1606	GP 1607	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	I _{F(AV)}	16							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150						Α	
Maximum Instantaneous Forward Voltage (Note 1) @ 8 A	V _F	1.1							V
Maximum DC Reverse Current at $\ \ \ \ \ \ \ \ \ \ \ \ \$	I _R	10 250						uA	
Typical Junction Capacitance (Note 2)	Cj	50							pF
Typical Thermal Resistance	$R_{\theta JC}$	1.5							°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	- 65 to + 150							οС

Note1: Pulse Test with PW=300 usec, 1% Duty Cycle

Note2: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.



RATINGS AND CHARACTERISTIC CURVES (GP1601 THRU GP1607)

